

DRILL HOLES

BORDER REV. DATE: June 1, 2004

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PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a Pedestrian activated Hazard Identification Beacon (H.I.B.) along MD 117 (W.Diamond Ave) at the Southbound I-270 On Ramp in Montgomery County, MD 117 (W.Diamond Ave) is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

- 1. The Hazard Identification Beacon is to be activated by pedestrians pushing the pushbuttons to cross the southbound I-270 on Ramp. Upon pushing the pushbutton, the Red LED indication on the pedestrian education sign will flash in unison with the H.I.B. The Flashing RED indication will assure the pedestrian that the H.I.B. is operating. At all other times the Hazard Identification Beacon shall be dark.
2. A pole mounted "G" size cabinet with relay package shall be installed at this intersection.

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
2. All controller cabinet wiring will be performed by Montgomery County Forces. Contact Kamal Hamud at (240) 777-8761 seventy-two hours in advance of intended work.
3. The contractor must notify Mr. Ed Rodenhizer at least 3 weeks in advance of the installation of the R10-4(1)Mod. "Pedestrian sign with Red LED indications", to assure enough time to fabricate the sign. The contractor is to bring the wiring to the sign, the SHA signal shop will make the connections to the Red LED indications.
4. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

The contacts for Montgomery County and SHA are as follows:

Ms. Anyesha Mookherjee Assistant District Engineer - Traffic Phone: (301) 513-7318
Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787-7630
Mr. Vernon Stinnett Assistant District Engineer - Maintenance Phone: (301) 513-7304
Mr. Bob Ricketts Signal Shop (Mont Co.) 240-777-8760
Mr. Victor Grafton Assistant District Engineer - Utility Phone: (301) 513-7350
Mr. Sonny Bailey Manager, Sign Shop Operations 410-787-7670
Mr. Kamal Hamud Mont. County TMC Center 240-777-8761
The power company representative is:
Mr. Steve Custer PEPCO Customer Design 201 W Guide Dr., Rockville, MD 20850 Phone: 301 548-4333

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

Table with columns: ITEM NO., DESCRIPTION, QUANTITY. Includes items like Relay package, Cabinet "G" type - pole mount, Sheet aluminum signs, R10-4(1) mod "PUSH BUTTON TO ACTIVATE WARNING FLASHERS / RED INDICATION WILL FLASH WHEN FLASHERS ARE OPERATING/ Led Light / STAY ALERT" sign, W11-1(2) "HIKER BIKER TRAIL CROSSING" sign, W13-4 "ACROSS RAMP" sign.

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

Table with columns: ITEM NO., DESCRIPTION, QUANTITY. Includes items like Maintenance of traffic per assignment, Test Pit Excavation, Standard type A combination curb and gutter, 5" concrete sidewalk, Detectable warning surfaces, 12" LED signal head section, Breakaway pedestal pole, Schedule 80 rigid PVC conduit, Install overhead or ground mounted sign, No. 6 AWG stranded bare copper ground wire, Furnish and install electrical handhole, Cut, clean, galvanize and cap traffic signal structure, Electrical cable - 3 conductor, Electrical cable - 5 conductor, Install controller and cabinet pole mount, Electrical cable 1-conductor, Non-audible pedestrian pushbutton.

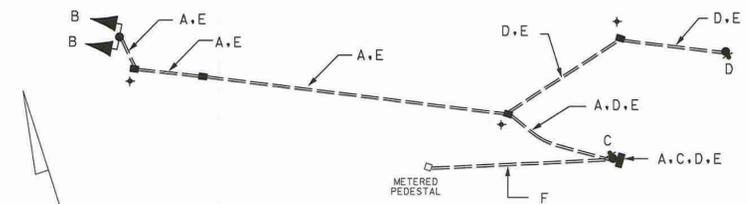
C. EQUIPMENT TO BE REMOVED

There is no signal equipment to be removed for this project.

PHASE CHART

Phase chart table with columns for NORMAL OPERATION, PEDESTRIAN CROSSING OPERATION, DARK, and FL/Y. Includes a diagram of a pedestrian crossing.

WIRING DIAGRAM



WIRING KEY

- A - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B, C, D } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
F - 3-1 CONDUCTOR ELECTRICAL CABLE (NO. 2 A.W.G.) FOR UNDERGROUND SERVICE BY PEPCO
+ - GROUND ROD

Redline Revision Dated February 15, 2011
SHA MDOT-SHA O.O.T.S.
S.H.A. Approval Date 2/17/2011
T.S. # 4774 T.I.M.S. # J803

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION
MD 117 (W. DIAMOND AVE) AND I-270 SOUTHBOUND RAMP
GAITHERSBURG, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 10/29/2010 CONTRACT NO. XX3545168R

DESIGNED BY R.R.Z. COUNTY MONTGOMERY
DRAWN BY R.C. LOGMILE 15011711.58
CHECKED BY [Signature] 2/11 TIMS NO. J803
F.A.P. NO. TOD NO.

T.S. NO. 4774 DRAWING NO. 2 OF 2 SHEET NO. OF

